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5 May 1959

**MEMORANDUM FOR:** Chief, Technical Services Staff

**SUBJECT :** Request for Continuation of Task Order Z, under Contract RD-26 with [redacted]

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1. Description of the Project

Further development and testing of an incinerator that can be used within a building for emergency document destruction.

2. Purpose of the Project

The fabrication of an air cooled incinerator standing five feet high and three and one-half feet in diameter has recently been completed. Preliminary tests using the incinerator are very encouraging in that using only forced air, solid untern paper is being consumed at rates varying from 200 to 800 pounds per hour. Even at the higher rates, without cyclone separators, and no stack, burning is virtually smokeless. The unit itself without motor, blower, and stack weighs only 558 pounds and can be completely assembled or disassembled by two men with ordinary hand tools.

At present the incinerator, as can be expected with any new item, has still several problems to be solved. Burning rates are highest during the first half of the period of burning, but during burning of the last thirty pounds of paper the burning rate is unsatisfactory. In addition the burning is extinguished with about five pounds still left in the incinerator which is almost impossible to destroy. In addition the top screen which prevents large pieces from escaping up the stack carburizes during burning of highly combustible materials such as newspapers. The screen may become unuseable. It is expected that the above problems will be partially solved within the next few weeks permitting this incinerator to be moved to the [redacted]

[redacted] for demonstrations and possible overseas shipment. When this committed move is made no incinerator will be available at the contractors for further design and tests to eliminate the above problems of ending slow rate of burning, unburned residue, and screen failure. There are also several design changes that should be incorporated in a second unit before a design is finalized for production.

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The proposed construction of a second incinerator in addition to enabling the above investigation to continue will permit the continuation of the concurrent development of a continuous feeding mechanism for the incinerator.

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By the time a final prototype of the feeding mechanism is available the present incinerator will be in [redacted]

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3. Recommended Contractor

The recommended contractor for this project is [redacted] who is currently conducting this development at their laboratories in [redacted]

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4. Support Requirements

There are no support requirements. Representatives of the Office of Physical Security are kept informed of progress and continually consulted for guidance.

5. Total Cost

The cost of this additional work is estimated at \$11,766.00 for an extension of four months. Charges are to be made against Allotment Number 9-2502-75-009.

6. Security Information

Contract RD-26 is an Agency sterile contract. Task Z is also Agency sterile. The item under development is unclassified. Government interest may be shown. Agency interest in all work and material under the contract and task is classified Secret and may be divulged only on a need-to-know basis to appropriate security approved personnel.

7. Project Engineers

The project engineers for this program are [redacted] Room 210, West Outbuilding, extension [redacted]

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[redacted]  
Chief  
TSS/Engineering Division

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DD/P/TSS/ED [redacted]

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